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U.S. DEPARTMENT OF COMMERCE  
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
**Masayuki Sasaki, Hideaki Sakaguchi**

Additional names(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):

Name: **Shinko Electric Industries Co., LTD**

Address: **711, Aza Shariden, Oaza Kurita, Nagano-Shi**

City: **Nagano** State/Prov.: \_\_\_\_\_

Country: **Japan** ZIP: **380-0921**

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

Assignment  Merger

Security Agreement  Change of Name

Other \_\_\_\_\_

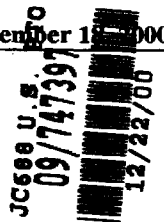
Execution Date: **December 18, 2000**

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: **December 18, 2000**

Patent Application No.	Filing date	B. Patent No.(s)
	<b>09/14/397</b>	

Additional numbers attached?  Yes  No



5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **John F. McNulty**

Registration No. **23,028**

Address: **Paul & Paul**

**2900 Two Thousand Market Street**

City: **Phila** State/Prov.: **PA**

Country: **USA** ZIP: **19103**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

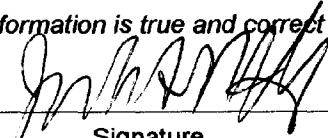
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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

**John F. McNulty**  **December 22, 2000**

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: **2**

YR Ref. J-177  
S Ref. SIK-M-3

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

SHINKO ELECTRIC INDUSTRIES CO., LTD.

711, Aza Shariden, Oaza Kurita, Nagano-shi,

Nagano 380-0921, Japan

(Insert  
ASSIGNEE's  
Name(s)  
Address(es))

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

CIRCUIT BOARD-PROVIDING ARTICLE, CIRCUIT BOARD, SEMICONDUCTOR DEVICE AND  
PROCESS FOR THE PRODUCTION OF THE SAME

(Title of  
Invention)

relating to International Patent Application PCT/JP \_\_\_\_\_/\_\_\_\_\_ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date  
of execution  
of application,  
if not  
concurrent)

- (a) executed on \_\_\_\_\_;
- (b) filed on \_\_\_\_\_;  
Serial No. \_\_\_\_\_/\_\_\_\_\_;

_____ _____ _____ ) is hereby authorized to insert in (b) the specified data, when known.
--

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1)	<u>Masayuki Sasaki</u> (SIGNATURE)	<u>Masayuki Sasaki</u> (TYPE NAME)	<u>December 18, 2000</u> (DATE)
2)	<u>Hideaki Sakaguchi</u> (SIGNATURE)	<u>Hideaki Sakaguchi</u> (TYPE NAME)	<u>December 18, 2000</u> (DATE)
3)	_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
4)	_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
5)	_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
6)	_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
7)	_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
8)	_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)